



**UN/CEFACT**

SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES

FOR GLOBAL BUSINESS

# **BUSINESS REQUIREMENTS SPECIFICATION (BRS)**

## **Aggregated Catch Data Report (ACDR) domain**

**Business domain:** Fisheries

**Business process:** Electronic data exchange for fisheries control and management

**Document identification:** P1000 – 12; ACDR domain

**Title:** Fisheries Language for Universal eXchange

**UN/CEFACT International Trade and Business Processes Group:**

Version: 2.0.2

Concluded ODP4

Release:

Document Change history log

Date change	of	Version	Paragraphs changed	Summary of changes	Author
<b>09/09/2013</b>		0.9.0	All	Compiled version from v0.3.4 presented before harmonization process.	E. Honoré
<b>11/10/2013</b>		1.0.0	Data model Structure	Draft version after harmonization process on October 2013	E. Honoré
<b>06/01/2015</b>		2.0.0	Class diagrams.	Impact of changes from General Principle's and Vessel entities.	E. Honoré
<b>03/02/2015</b>		2.0.1	Class diagrams.	Editorial & Diagrams.	E. Honoré
<b>10/02/2015</b>		2.0.2		Editorial & Diagrams for publication.	E. Honoré

# Business Requirements Specification

## Table of contents

<b>1</b>	<b>PREAMBLE</b> .....	<b>4</b>
<b>2</b>	<b>REFERENCES</b> .....	<b>4</b>
<b>3</b>	<b>OBJECTIVE</b> .....	<b>5</b>
<b>4</b>	<b>SCOPE</b> .....	<b>5</b>
<b>5</b>	<b>STAKEHOLDERS</b> .....	<b>6</b>
<b>6</b>	<b>BUSINESS REQUIREMENTS</b> .....	<b>7</b>
6.1	<b>Business requirements view</b> .....	<b>7</b>
6.2	<b>Business process elaboration</b> .....	<b>7</b>
6.2.1	Aggregated Catch Data Report message exchange .....	<b>7</b>
6.3	<b>Information flow definition (activity diagram, description)</b> .....	<b>8</b>
6.3.1	Aggregated Catch Data Report message exchange .....	<b>8</b>
6.4	<b>Information model definition (class diagram)</b> .....	<b>9</b>
6.4.1	FLUX ACDR Declaration:.....	<b>9</b>
	FLUX_ ACDR Report Entity.....	<b>11</b>
	ACDR_ Reported Area Entity.....	<b>11</b>
	ACDR_ Catch Entity.....	<b>12</b>
	Aggregated Catch Report_ Document Entity.....	<b>12</b>
	Delimited_ Period Entity.....	<b>12</b>

## **1 Preamble**

This BRS document builds upon the general principles set out in the P1000-1; General Principles BRS document; it details the Aggregated Catch Reporting (ACR) business domain identified in P1000-12.

This BRS is standardizing a part of reporting data exchanges between Member States and EC parties, using the UN/CEFACT Modeling Methodology (UMM) approach and Unified Modeling Language.

The structure of this document is based on the structure of the UN/CEFACT Business Requirements Specification (BRS) document reference CEFACT/ICG/005.

## **2 References**

UN/CEFACT Modeling Methodology User Guide (CEFACT/TMG/N093)

UN/CEFACT Business Requirement Specification Document Template (CEFACT/ICG/005)

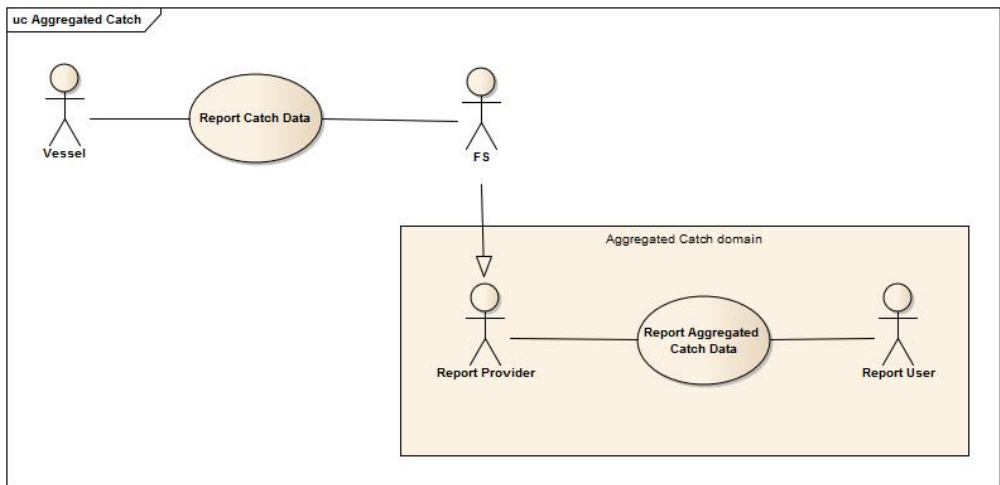
UN/CEFACT FLUX General Principles Business Requirement Specification Document (v2.x)

### 3 Objective

The objective of this document is to propose a standard for exchanging aggregated catch data between stakeholders.

### 4 Scope

As described in Figure 1, a vessel has to report its catch data to its Flag State (FS). The Flag State plays the role of a Report Provider by aggregating catch data and sends it to any Report User who requested it. FS and Report User can play also the role of Report Provider by, optionally, aggregating again the catch data received and send the new report to another Report User. The document concentrates on data exchanges and data management related to aggregated catch report send by any Report Provider and Report User.



**Figure 1: Aggregated Catch: general overview diagram.**

Categories	Description and Values
Business Process	General Message Exchange Aggregated Catch Reporting
Product Classification	None
Industry Classification	Fisheries sector
Geopolitical	Global

Official Constraints	International regulations, agreements and conventions National regulations Technical measures
Business Process Role	None
Supporting Role	None
System Capabilities	None

## 5 Stakeholders

Report provider	Typically (not exhaustive):  The Flag State: The state, which vessels flying their flag, is reporting aggregated data about the catches.  The Receiver forwards to third parties the aggregated data about catches received from Flag States.
Report user	Any legal entity receiving the data. For instance: FAO, EU, Regional Fisheries Management Organization (RFMO), Country, Scientific Organization, etc.

## 6 Business requirements

### 6.1 Business requirements view

Within context of international agreements, Flag States are gathering data about the catches of their vessels. This catch data has to be aggregated and exchanged with International parties for e.g. control or scientific reasons.

Some of these international parties further aggregate the data sending it to other international parties.

### 6.2 Business process elaboration

#### 6.2.1 Aggregated Catch Data Report message exchange

##### Principles

A report producer has to periodically report about these catches data at a certain aggregation level to a report user.

Use case: Aggregated Catch Data Report message exchange

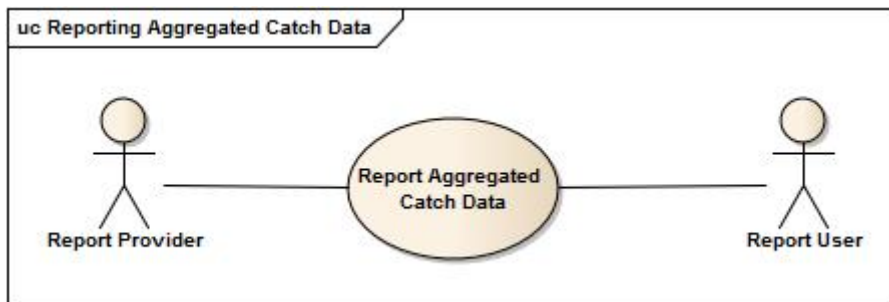


Figure 2: Report Aggregated Catch Data use case diagram

##### Use case description

<b>Business process name</b>	Aggregated Catch Data Report message transmission
<b>Identifier</b>	ACDRMT
<b>Actors</b>	Report provider, report user
<b>Description</b>	The report provider transmits the report on a regular basis

	to a report user
<b>Pre-condition</b>	None
<b>Post-conditions</b>	None
<b>Scenarios</b>	None
<b>Remarks</b>	None

### 6.3 Information flow definition (activity diagram, description)

#### 6.3.1 Aggregated Catch Data Report message exchange

The activity diagram allows identifying all the significant information flows between the Report Provider, which has collected catch data, and the Report User.

#### Activity Diagram

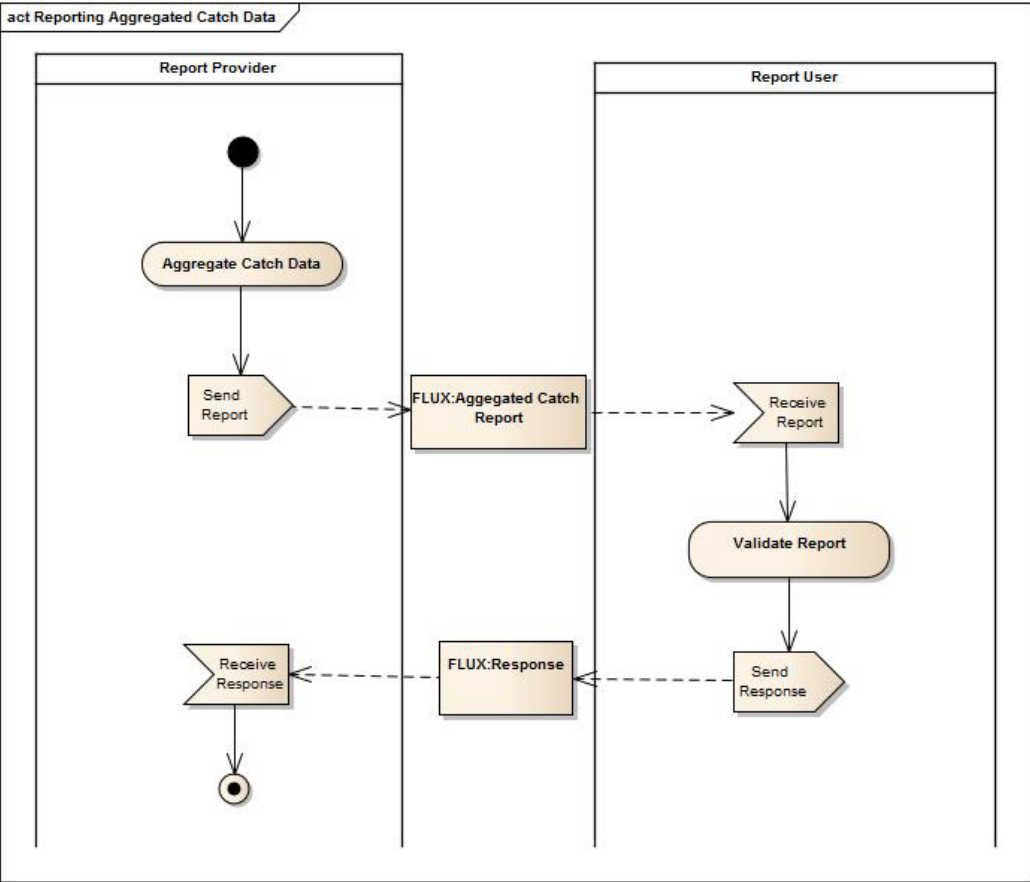


Figure 3 Reporting Aggregated Catch Data message transmission diagram



## **6.4 Information model definition (class diagram)**

The Class diagram describes all the necessary classes of information for a flow of information exchange for the Aggregated Catch Data Report message transmission case.

### **6.4.1 FLUX ACDR Declaration:**

Description: The type of message which is used when reporting FLUX aggregated catch data<sup>1</sup>.

---

<sup>1</sup> The definition of base entities such as *FLUX Report\_ Document*, *FLUX\_ Response*, *Party* can be found in the *General principles* document.

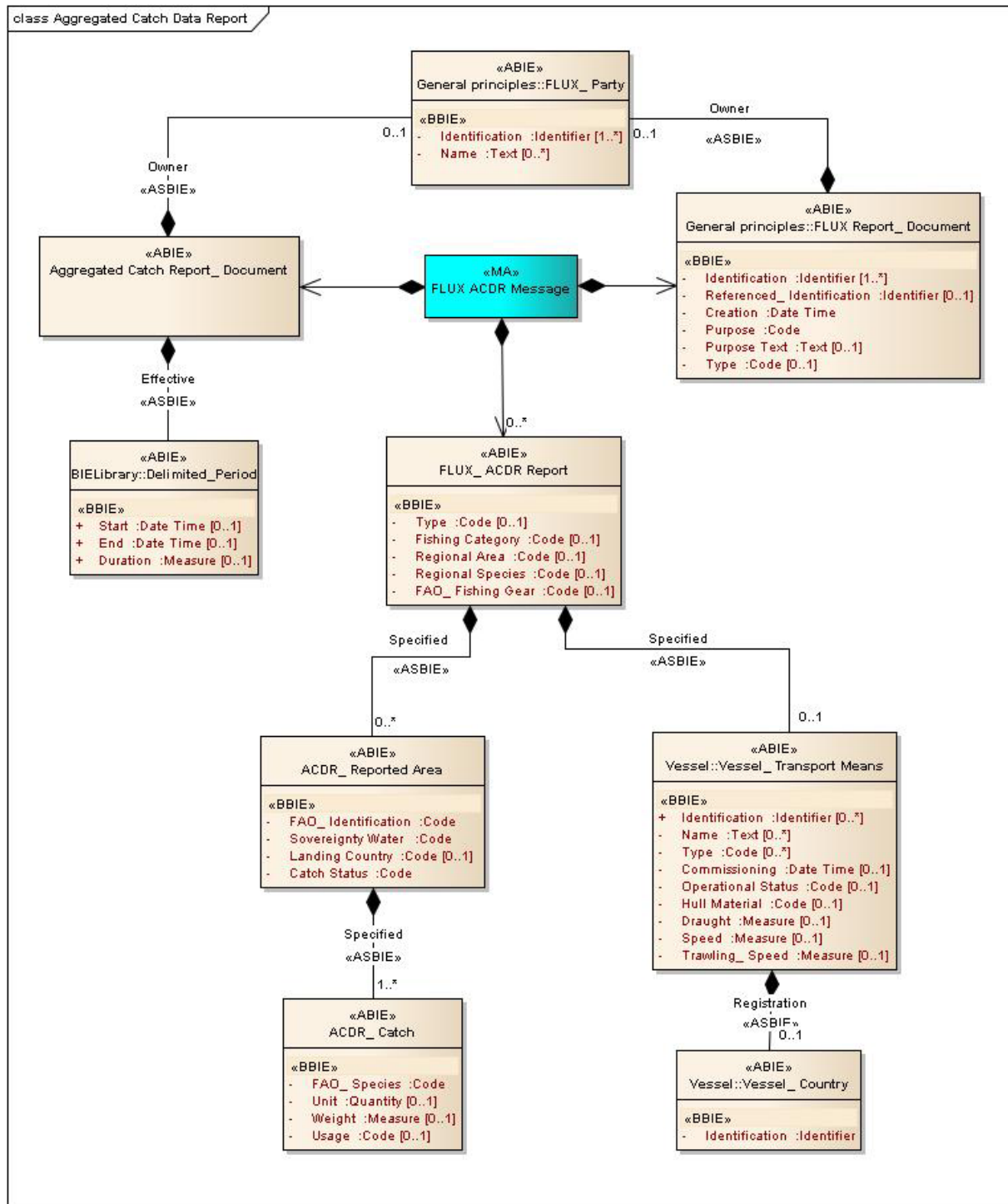


Figure 4: class diagram FLUX ACDR Message

## **FLUX ACDR Report Entity**

Description: The entity is used to provide the information contained in a Fisheries Language for Universal eXchange (FLUX) Aggregated Catch Data Report (ACDR) report.

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
0..1	Type	Att	Code	The code specifying the type of this ACDR Report.
0..1	Regional Area	Att	Code	The code, as defined by a regional body, specifying an area for this FLUX ACDR report.
0..1	Regional Species	Att	Code	The code, as defined by a regional body, specifying a species covered by this FLUX ACDR report.
0..1	Fishing Category	Att	Code	The code specifying a fishing category, such as the type of vessel, the type of fishing activity or the fishing gear deployed, in this FLUX ACDR report.
0..1	FAO_ Fishing Gear	Att	Code	The Food and Agriculture Organization (FAO) code specifying the fishing gear covered by this FLUX ACDR report.
0..1	Specified	Ass	Vessel_ Transport Means Entity <sup>2</sup>	The vessel transport means specified in this FLUX ACDR report.
1..n	Specified	Ass	ACDR_ Reported Area Entity	A reported area specified in this FLUX ACDR report.

## **ACDR Reported Area Entity**

Description: Entity defining an area related to a reported catch for an Aggregated Catch Data Report (ACDR).

<b>Mult.</b>	<b>Business term</b>	<b>Rel.</b>	<b>Type</b>	<b>Description</b>
1	FAO_ Identification	Att	Code	The Food and Agriculture Organization (FAO) code identifying this ACDR reported area.
1	Sovereignty Water	Att	Code	The sovereignty water code specified for this ACDR reported area.
0..1	Landing Country	Att	Code	The code specifying a landing country for this ACDR reported area.
1	Catch Status	Att	Code	The code specifying the catch status, either transshipment or retention on board, reported for this ACDR area.
1..n	Specified	Ass	ACDR_ Catch Entity	The code specifying the catch status, either transshipment or retention on board, reported for this ACDR area.

<sup>2</sup> The definition of entities such as *Vessel\_ Transport Means* can be found in the *Vessel* document.

### **ACDR Catch Entity**

Description: the entity containing Aggregated Catch Data Report (ACDR) information about the species and quantity of fish caught.

Mult.	Business term	Rel.	Type	Description
1	FAO_Species	Att	Code	The Food and Agriculture Organization (FAO) species code for this ACDR catch.
0..1	Unit	Att	Quantity	The quantity of fish, according to the unit used to declare catches, for this ACDR catch.
0..1	Weight	Att	Measure	The measure of the weight of this ACDR catch.
0..1	Usage	Att	Code	The code specifying a usage of this ACDR catch, such as commercial or discard.

### **Aggregated Catch Report Document Entity**

Description: The entity defining a collection of data for a piece of written, printed or electronic matter that is exchanged between two or more parties in every aggregated catch report.

Mult.	Business term	Rel.	Type	Description
1	Effective	Ass	Delimited_Period Entity	The delimited period within which this aggregated catch report document is effective.
0..1	Owner	Ass	FLUX_Party Entity <sup>3</sup>	The FLUX party that owns this aggregated catch report document.

### **Delimited Period Entity**

Description: The entity defining a period of time from a start date time onwards up to an end date time.

Mult.	Business term	Rel.	Type	Description
0..1	Start	Att	Date Time	The date, time, date time or other date time value for the start of this delimited period.
0..1	End	Att	Date Time	The date, time, date time or other date time value for the end of this delimited period.
0..1	Duration	Ass	Measure	The measure of the length of time for this delimited period such as hours, days, weeks, months or years.

---

<sup>3</sup> The definition of base entities such as *FLUX\_Party* can be found in the *General Principles* document.